



SIMTECH-GFMS JOINT LAB ON METAL ADDITIVE MANUFACTURING (AM) TECHNOLOGY

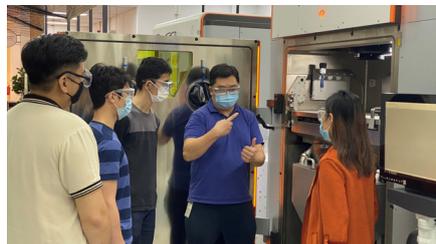
A public-private partnership to develop and showcase AM solutions to accelerate the adoption of AM in the industry

A*STAR's Singapore Institute of Manufacturing Technology (SIMTech) and GF Machining Solutions (GFMS) signed an agreement in November 2020 to establish a joint research body dedicated to advanced metal additive manufacturing (AM) work flow for various in-demand AM materials, such as the selective laser melting (SLM) technology and wire cutting for AM.

SIMTech has been engaging industry partners from various sectors to build the AM ecosystem in Singapore through R&D collaborations. The strong public-private partnership with the AM equipment maker, GFMS, is another milestone to bring the AM technology to the local and regional market.

Founded in 1861, GFMS is one of the world's leading providers of machines, automation solutions and services to the tool and mold making industry and to manufacturers of precision components. GFMS has developed integrated manufacturing solutions,

based on the new generation of 3D metal additive equipment, combining metal AM expertise with subtractive fabrication expertise, which are geared towards a seamless and efficient workflow for the end-users.



The SIMTech- GFMS Additive Manufacturing joint lab aims to drive the development of the next-generation metal additive manufacturing process technologies by combining SIMTech's metal additive manufacturing capabilities and GFMS's state-of-the-art equipment and unique know-how. The joint collaboration will further promote open innovation and develop market-driven products and solutions.

In the first year of the collaboration, both GFMS and SIMTech will work closely to address the process challenges in 3D printing of advanced materials, post machining and heat treatment. System validation studies for industrial metal 3D Printer DMP Flex 350 will be carried out on advanced and in-demand materials, such as AlSi10Mg, Ti6Al4V and Maraging steel. Powder and printed part characterisation studies will also be carried out for quality assurance of the process flow in industrial part printing. Through this partnership with SIMTech, GFMS will be able to provide comprehensive end-to-end engineering solutions to their end-users and potential clients, allowing them to stay ahead of the growing competition in the AM market.

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“With the combined expertise in SIMTech's manufacturing processes and GFMS's equipment know-how, we are confident that the collaboration will create market-relevant innovations and solutions for greater AM adoption and commercialisation”

*Mr Carlos Gazio, Managing Director of South East Asia/Pacific,
 GF Machining Solutions*

PE COI Precision Engineering
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